# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 03/04/2015 11:20 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/20/2014 10:06 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124615 | -1 | 1.49 | 124509 | 1.44 |
| Blue | F | SSC | 125000 | 124381 | -1 | 2.29 | 125293 | 1.95 |
| Blue | E | FITC | 17374 | 16591 | -5 | 2.26 | 935 | 8.59 |
| Blue | D | PE | 22653 | 22149 | -3 | 1.84 | 1001 | 7.45 |
| Blue | B | PerCP-Cy5-5 | 64987 | 64087 | -2 | 2.51 | 1691 | 12.10 |
| Blue | A | PE-Cy7 | 74081 | 72630 | -2 | 3.57 | 954 | 23.64 |
| Red | C | APC | 61430 | 60556 | -2 | 3.60 | 3426 | 8.35 |
| Red | A | APC-Cy7 | 88289 | 86929 | -2 | 3.67 | 1716 | 8.05 |
| Violet | B | V450 | 12535 | 11974 | -5 | 3.29 | 742 | 7.23 |
| Violet | A | V500 | 47468 | 45721 | -4 | 2.93 | 2583 | 5.19 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 19879 | 3.84 | 586 | 7 | N/A | N/A | Pass |
| Blue | F | SSC | 62058 | 1.28 | 496 | 7 | N/A | N/A | Pass |
| Blue | E | FITC | 103 | 33.36 | 513 | 4 | 0.0267 | 52 | Pass |
| Blue | D | PE | 206 | 23.17 | 507 | 6 | 0.2018 | 144 | Pass |
| Blue | B | PerCP-Cy5-5 | 206 | 36.14 | 586 | 6 | 0.0130 | 0 | Pass |
| Blue | A | PE-Cy7 | 74 | 89.47 | 643 | 6 | 0.0164 | 5 | Pass |
| Red | C | APC | 320 | 25.65 | 575 | 5 | 0.0221 | 0 | Pass |
| Red | A | APC-Cy7 | 108 | 37.82 | 551 | 5 | 0.0053 | 1042 | Pass |
| Violet | B | V450 | 79 | 37.07 | 446 | -3 | 0.0614 | 1804 | Pass |
| Violet | A | V500 | 169 | 19.03 | 474 | -4 | 0.0186 | 38 | Pass |

## Specifications

PMTV Delta from baseline: 50 (BD)
Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.64 | 47.70 - 71.54 | N/A | N/A | -31.85 | -31.64 | 0.91 |
| Blue | 20.47 | 16.35 - 24.53 | 1.25 | 1.00 - 1.50 | 0.00 | 0.00 | 1.29 |
| Red | 15.08 | 13.07 - 19.61 | N/A | N/A | 32.08 | 32.39 | 1.11 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.89

## Threshold

Threshold (FSC): 14704

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments